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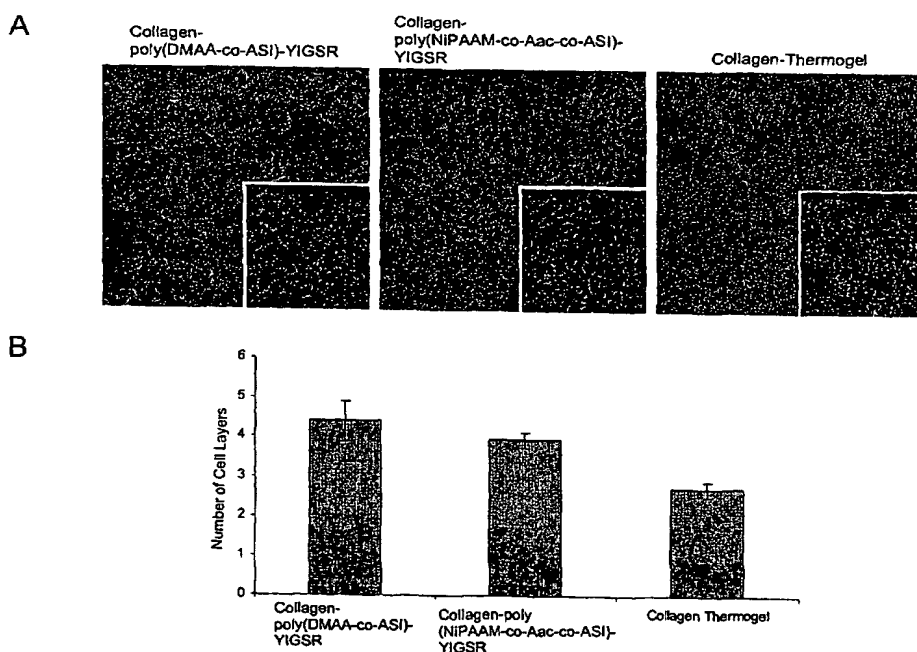
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(54) Title: **INNERVATED ARTIFICIAL TISSUES AND USES THEREOF**



(57) Abstract: A three dimensional, innervated artificial tissue comprising a bio-synthetic matrix is provided. The artificial tissue supports cell growth, including surface coverage and three-dimensional cell in-growth, as well as nerve in-growth. Methods of preparing the innervated artificial tissue and methods of innervating artificial tissues or tissue substitutes are also provided. The artificial tissue is useful for in vitro testing of various pharmaceutical, cosmetic and household products.

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# INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12N5/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, BIOSIS, EMBASE, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96 02286 A (CYTOTHERAPEUTICS INC) 1 February 1996 (1996-02-01)	1-3, 7-10,13, 21,22, 25,26 12,14, 15,17
Y	page 3, line 11 - line 17  page 7, line 31 -page 8, line 8 page 8, line 34 -page 9, line 4 page 11, line 19 - line 27 page 14, line 24 - line 26 page 15, line 23 - line 25 page 16, line 4 - line 12 page 19, line 5 - line 17 page 24, line 7 - line 20 page 24, line 31 -page 25, line 5; claims 10,11,15,16  --- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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\*G\* document member of the same patent family

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/CN/01191

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WO 99 55252 A (VACANTI CHARLES A ;UNIV MASSACHUSETTS (US); VACANTI JOSEPH P (US);) 4 November 1999 (1999-11-04)  page 4, line 32 -page 5, line 29  page 7, line 20 -page 8, line 8  page 18, line 20 - line 29  page 21, line 16 - line 32  page 25, line 8 - line 22  page 38, line 20 - line 29</p>	<p>1-3,  6-17,  20-26</p>
Y	<p>WO 98 16266 A (ORGANOGELE CANADA LTEE ;WOERLY STEPHANE (CA))  23 April 1998 (1998-04-23)  page 4, line 32 -page 5, line 29  page 7, line 20 - line 8  page 18, line 20 - line 29  page 21, line 16 - line 32  page 25, line 8 - line 22</p>	<p>1-3,  6-17,  20-26</p>
Y	<p>VERNON BRENT ET AL: "Insulin release from islets of Langerhans entrapped in a poly(N-isopropylacrylamide-co-acrylic acid) polymer gel"  JOURNAL OF BIOMATERIALS SCIENCE POLYMER EDITION,  vol. 10, no. 2, 1999, pages 183-198,  XP009023869  ISSN: 0920-5063  abstract</p>	<p>6</p>
Y	<p>US 6 103 528 A (GUTOWSKA ANNA ET AL)  15 August 2000 (2000-08-15)  column 5, line 13 - line 32; example 6</p>	<p>6</p>
Y	<p>PLANT GILES W ET AL: "Implantation of collagen IV poly (2-hydroxyethyl methacrylate) hydrogels containing Schwann cells into the lesioned rat optic tract"  CELL TRANSPLANTATION,  vol. 7, no. 4, July 1998 (1998-07), pages 381-391, XP002269419  ISSN: 0963-6897  abstract</p>	<p>1-3,  6-17,  20-26</p>
A	<p>CHIRILA T V: "An overview of the development of artificial corneas with porous skirts and the use of PHEMA for such an application"  BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB,  vol. 22, no. 24,  15 December 2001 (2001-12-15), pages 3311-3317, XP004309014  ISSN: 0142-9612  the whole document</p>	

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International Application No

PCT/03/01191

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	<p>----- WOERLY STEPHANE: "Restorative surgery of the central nervous system by means of tissue engineering using NeuroGel implants" NEUROSURGICAL REVIEW, vol. 23, no. 2, June 2000 (2000-06), pages 59-77, XP002269421 ISSN: 0344-5607 page 70, left-hand column, paragraph 3 -page 73, left-hand column, paragraph 3 -----</p>	

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Information on patent family members

International application No

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